

## DECORATION PANEL

### FIELD OF THE INVENTION

This invention relates to a decoration panel, and more particularly to a decoration panel wherein the length is adjustable to be fitted to a various size of walls, windows, furniture and so on, and the cost of manufacturing apparatus for the various sizes could be reduced.

### BACKGROUND OF THE INVENTION

Decoration panels are widely used on both sides of the windows, peripheries of room walls or furniture. Those decoration panels are fixed on the walls adjacent to the windows or the furniture by way of screw. But the windows or furniture are made of various sizes depending on the places or position, therefore the decoration panels also should be made in various size corresponding to the sizes of walls, windows or furniture. That is, a decoration panel of single size can not be used to all walls, windows or furniture. Therefore, the panel makers should prepare many apparatuses or moulds to meet the various sizes of decoration panels, which will result in high cost of manufacturing.

## SUMMARY OF THE INVENTION

The invention is provided to solve the problems as described above and the object of the invention is to suggest a novel decoration panel wherein the length is adjustable to be fitted to a various size of windows or furniture and so on, and the cost of manufacturing apparatus for the various sizes could be reduced.

According to one aspect of the invention, there is provided a decoration panel installed on the walls which comprises a main panel 15 having a plurality of holes 20 aligned on the upper or lower part of it in the vertical direction, a sub panels 30, 40 having a front cover 31 and a plurality of holes 37a, 37b on the rear of the front cover 31 corresponding to the holes 20 and being inserted on the upper or lower end of the main panel 15, and a joiner 50 being engaged through the holes 37a, 37b of the sub panel 30, 40 into the holes 20 of the main panel 15 to join the sub panel 30, 40 to the upper or lower part of the main panel 15, and the length of the decoration panel being adjustable by selectively inserting the joiner 50 with the holes 20 of the sub panel 30 and the corresponding holes 20 of the main panel 15.

According to the other aspect of the invention, there is provided a decoration panel wherein the holes 20 are formed on the first strips 55 disposed on the upper or lower part of rear of the main panel 15 in a longitudinal direction, and the holes 37a, 37b are formed on the second strips 60 disposed on the rear of the front cover 31 of the sub panels 30, 40 in a longitudinal direction and the edge plates 65, 66 are provided on the periphery of the main panel 15, and the upper or lower edge plates 65 of the main panel 15 have recesses 70 corresponding to the first strips 55 so that the second strips 60 of the sub panel 30, 40 should be inserted on the recesses 70 when the sub panels 30, 40 are joined on the upper or lower end of the main panel 15.

According to the other aspect of the invention, there is provided a decoration panel, wherein a plurality of horizontal score lines 75 are formed on the upper part or lower part of the main panel 15 so that the length of the main panel 15 should be adjustable by cutting the upper part or lower part of the main panel 15 along the score lines 75.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows the use state of the invention.

Figure 2 shows the exploded rear view of the invention

Figure 3 shows the assembled rear view of the invention

Figure 4 shows the section along the line of A-A in Figure

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#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Preferred embodiments of the invention will be described in detail below by referring to the accompanying drawings.

Figure 1 to 3 show the embodiment of the invention in which the decoration panel comprises main panel 15, sub panels 30, 40 inserted on the upper or lower end of the main panel 15, and joiners 50 fixing the sub panel into the main panel 30, 40.

The main panel 15 is in a rectangular shape and has edge plates 65a, 65b, 66a, 66b disposed on the periphery of the rear side of it. The main panel 15 may be fixed on the walls or the wall adjacent to the window 1 or the furniture by mean of screws or so. The first strips 55 are provided in a longitudinal direction on the upper or lower part of rear side of the main panel 15, and a plurality of holes 20 are formed along the first strips 55. The holes 20 of the first strips 55 are preferably disposed in a constant interval, for example, in an interval of 1 inch. On the upper and lower edge plate 65a, 65b of the main panel

15 are provided recesses 70 to receive the second strips 60 of the sub panel 30, 40 mentioned below. And the second recesses 72 are formed on the both side of the recesses 70.

The sub panel 30, 40 comprises an upper sub panel 30 and a lower sub panel 40 each being inserted on the upper end and lower end of the main panel 15. The upper sub panel 30 comprises a front cover 31, and top edge plate 32a and two side edge plates 34a, 34b disposed on the periphery of rear of the front cover 31. The second strips 60 are provided on the rear of the front cover 31 in a longitudinal direction corresponding to the first strips 55 of the main panel 15. And, holes 37a, 37b are formed on the second strips 60. As the second strips 60 are disposed separately from the front cover 31 as shown in Figure 4, the first strips 55 of the main panel 15 will be interposed between the main panel 15 and the second strips 60 of sub panel 30 in joined state. And a rib 67 is provided between the top edge plate 32a and the second strips 60 in order to attach the second strips 60 on the front cover 31 firmly.

The lower sub panel 40 also comprises a front cover 41 and bottom edge plate 32b and two side edge plates 34a, 34b on the periphery of the rear of the front cover 41. And the second strips 60 are provided on the rear of the front cover 41 in a longitudinal direction corresponding to the first strips

55 of the main panel 15. Also, holes 37a, 37b are formed on the second strips 60. And, as the second strips 60 are disposed separately from the front cover 41, the first strips 55 of the main panel 15 will be interposed between the main panel 15 and the second strips 60 of sub panel 40 in joined state. And a rib 67 is provided between the bottom edge plate 32b and the second strips 60 to attach the second strips 60 on the front cover 41 firmly.

Preferably, the joiner 50 comprises a head 44 and a shaft 43 to be inserted into the holes 20 of the first strips 55 and the holes 37a, 37b of the second strips to join the sub panel 30, 40 with the main panel 15.

According to the invention as described above, the length of the decoration panel will be easily adjusted according to the dimension of the walls, windows or furniture on which the decoration panel should be installed by selecting the hole among the holes 20a, 20b, 20c, 20d, 20e of the main panel 15 to be engaged with the hole 37a, 37b of the sub panel 30, 40 and by fixing with joiner.

For example, if the vertical length of window is 70 inches and the length of the main panel is also 70 inches, the holes 37a, 37b of the sub panel 30, 40 should be aligned with the

first hole 20a of the main panel 15 and the joiner 50 should be engaged on these holes 37a, 37b and 20a. And if the vertical length of window is 73 inches and the length of the main panel is 70 inches, the holes 37a, 37 of the sub panel 30, 40 should be aligned with the fourth hole 20d of the main panel 15 and the joiner 50 should be engaged on these holes 37a, 37b and 20d.

And, on the top side plate 65a and bottom side plate 65b are provided recesses 70 to receive the second strip 60 of the subpanel 30, 40. And, on both side of the recesses 70 are provided the second recesses 72 to receive a rib 67 of the first strips 55. Therefore, the sub panel 30, 40 could be joined smoothly with the upper and lower part of the main panel 15 without any protrusion on the rear surface.

Meanwhile, the main panel 15 is provided with a plurality of horizontal score lines 75 on the upper and lower part of it as shown in Figure 2 and 3. For example, the score lines 75 may have the interval of 1 inch. Therefore, the length of decoration panel could be shorten from the regular size of main panel by cutting along one of the score lines 75 as well as it could be lengthen from the regular size by extending the sub panel 30, 40 along the main panel 15.

According to the invention as described above, the length of the decoration panel is adjustable so that it could be used to a various size of walls, windows, furniture and so on, and the cost of manufacturing apparatus or mould for the various sizes panel could be remarkably reduced.